

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P631387

Luminaire Tested: GWS-SA1F-750-U-SLL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631387  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-37)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1F-750-U-SLL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR LEFT OPTICS  
Light Source: (16) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

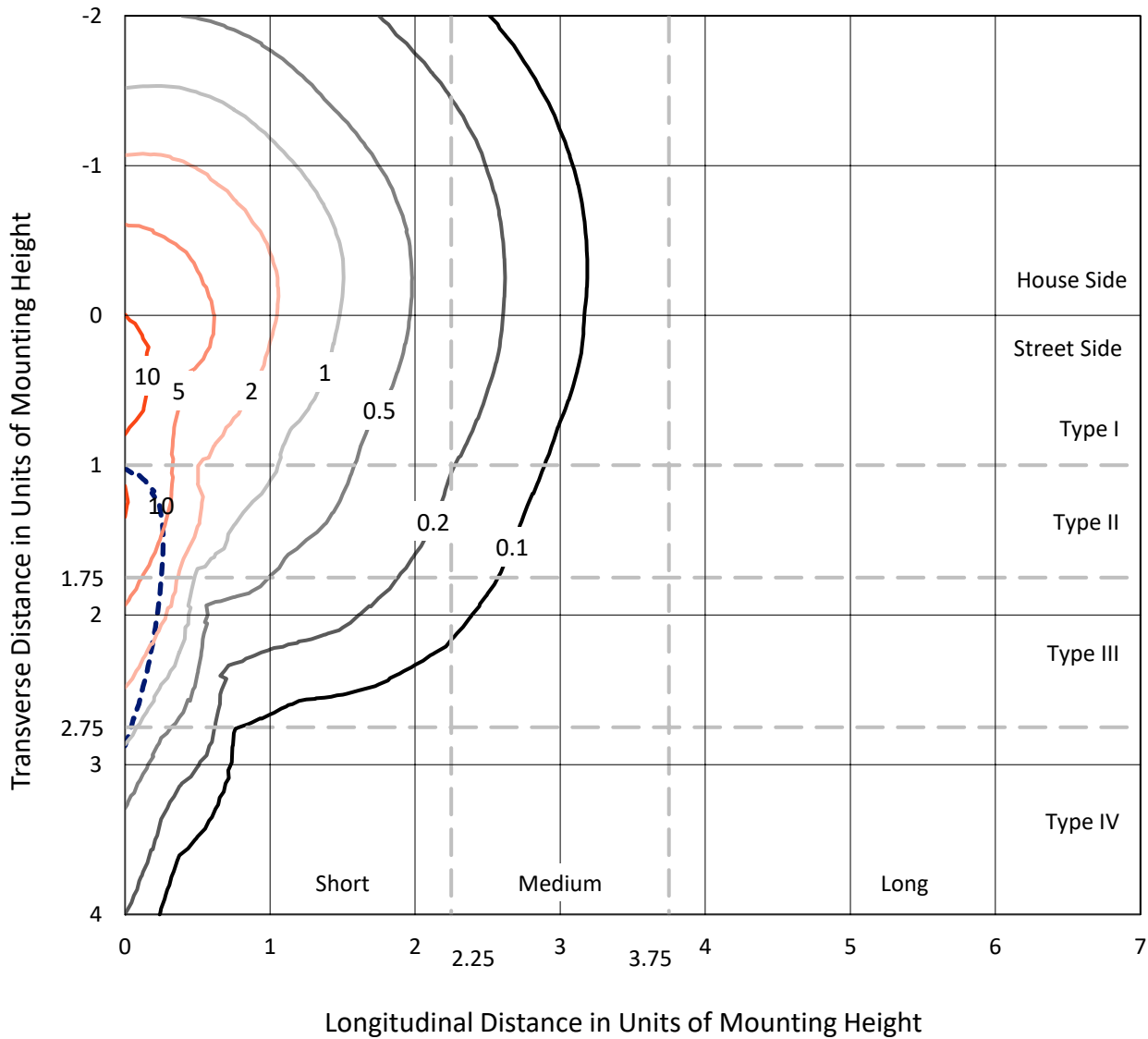
Lumens per Lamp: N/A  
Luminaire Lumens: 8077.1 lumens  
Efficiency: N/A  
Efficacy: 120.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

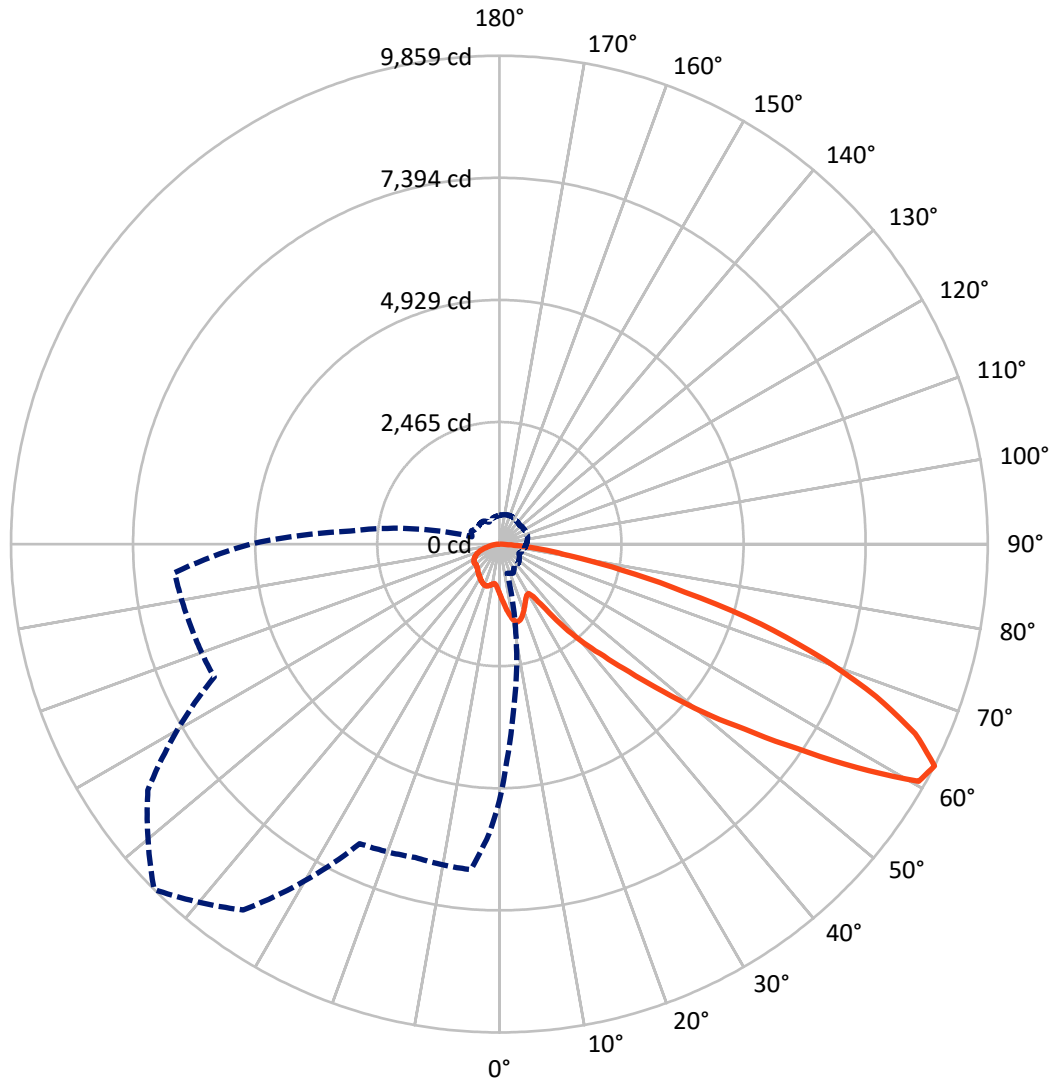
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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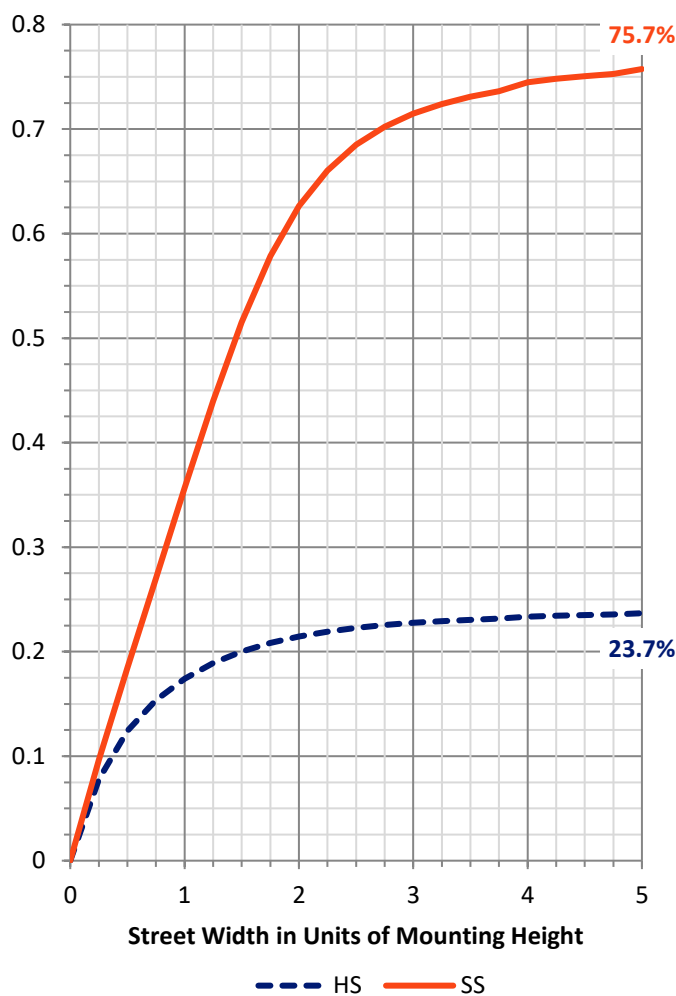
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1931.2   | 0.0    | 1931.2 |
|                    | % Fixture | 23.9     | 0.0    | 23.9   |
| <b>Street Side</b> | Lumens    | 6145.9   | 0.0    | 6145.9 |
|                    | % Fixture | 76.1     | 0.0    | 76.1   |
| <b>Total</b>       | Lumens    | 8077.1   | 0.0    | 8077.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 99.2   | 1.2       |
| 10°-20°   | 322.4  | 4.0       |
| 20°-30°   | 507.6  | 6.3       |
| 30°-40°   | 695.7  | 8.6       |
| 40°-50°   | 1085.6 | 13.4      |
| 50°-60°   | 1871.7 | 23.2      |
| 60°-70°   | 2169.1 | 26.9      |
| 70°-80°   | 1144.9 | 14.2      |
| 80°-90°   | 180.9  | 2.2       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-90°    | 8077.1 | 100.0     |
| 0°-180°   | 8077.1 | 100.0     |

**Coefficient of Utilization**



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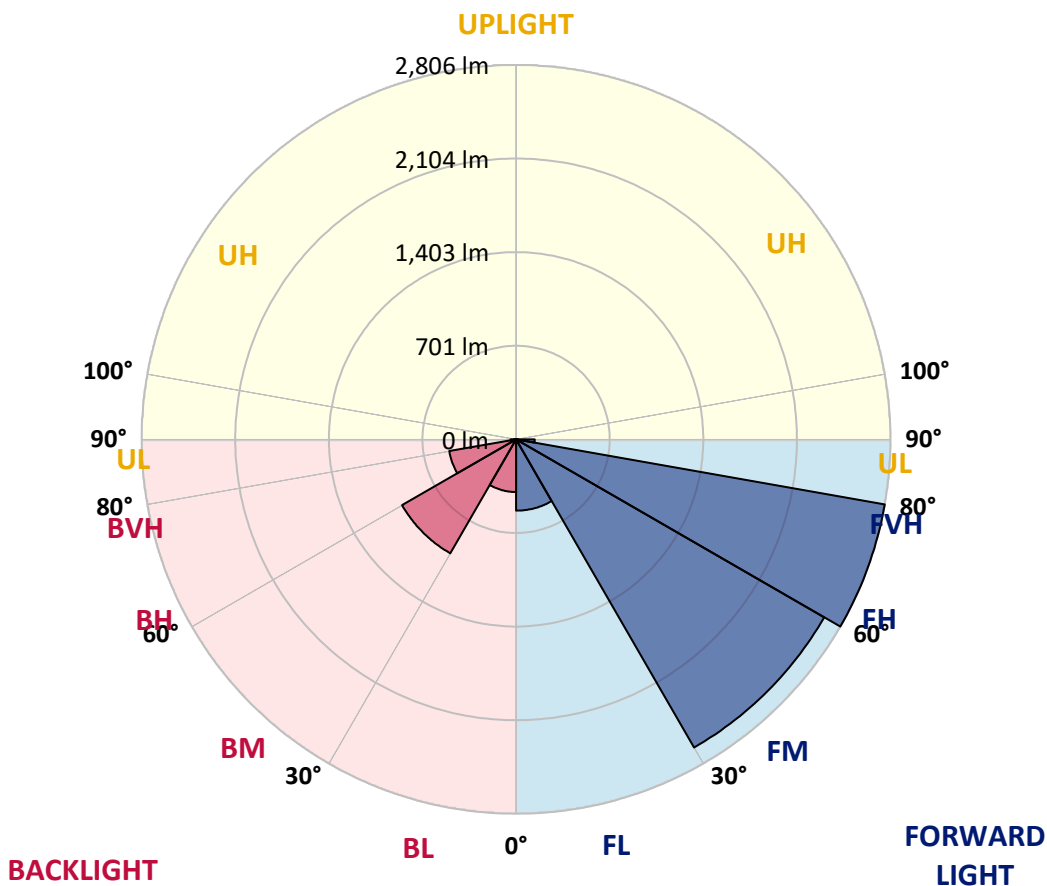
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 534.2  | 6.6       |                         |      |         |
| FM (30°-60°)   | 2666.5 | 33.0      |                         |      |         |
| FH (60°-80°)   | 2805.5 | 34.7      |                         |      | G2/5000 |
| FVH (80°-90°)  | 139.6  | 1.7       |                         |      | G2/225  |
| BL (0°-30°)    | 395.0  | 4.9       | B1/500                  |      |         |
| BM (30°-60°)   | 986.5  | 12.2      | B1/1000                 |      |         |
| BH (60°-80°)   | 508.5  | 6.3       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 41.3   | 0.5       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 2°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1007.0 | 1007.0 | 1007.0 | 1007.0 | 1007.0 | 1007.0 | 1007.0 | 1007.0 | 1007.0 | 1007.0 | 1007.0 |
| 2.5°  | 1094.2 | 1089.8 | 1083.7 | 1062.7 | 1049.7 | 1034.8 | 1019.4 | 1001.5 | 981.1  | 966.9  | 952.7  |
| 5°    | 1186.8 | 1180.0 | 1165.2 | 1115.2 | 1080.6 | 1042.9 | 1011.4 | 975.5  | 940.3  | 916.2  | 892.1  |
| 7.5°  | 1275.8 | 1267.1 | 1244.3 | 1167.7 | 1111.5 | 1057.1 | 1009.5 | 957.6  | 905.1  | 869.3  | 840.9  |
| 10°   | 1364.8 | 1346.8 | 1317.8 | 1217.7 | 1143.6 | 1080.6 | 1026.2 | 962.6  | 892.8  | 843.9  | 813.7  |
| 12.5° | 1432.7 | 1416.0 | 1384.5 | 1263.4 | 1175.7 | 1096.6 | 1035.5 | 976.8  | 917.5  | 865.6  | 834.7  |
| 15°   | 1496.4 | 1474.7 | 1438.9 | 1306.1 | 1202.3 | 1096.0 | 1016.9 | 965.7  | 957.0  | 944.0  | 903.9  |
| 17.5° | 1542.1 | 1522.3 | 1485.2 | 1340.7 | 1217.1 | 1076.9 | 965.7  | 935.4  | 974.3  | 1013.8 | 975.5  |
| 20°   | 1582.2 | 1559.4 | 1521.7 | 1364.8 | 1220.2 | 1034.2 | 903.3  | 903.9  | 965.0  | 1019.4 | 1010.1 |
| 22.5° | 1616.2 | 1590.9 | 1557.5 | 1391.9 | 1219.0 | 974.9  | 848.9  | 886.0  | 947.1  | 989.7  | 991.0  |
| 25°   | 1658.2 | 1637.2 | 1609.4 | 1432.1 | 1219.0 | 914.4  | 809.3  | 864.3  | 916.8  | 952.7  | 951.4  |
| 27.5° | 1709.5 | 1695.3 | 1672.4 | 1493.3 | 1230.1 | 863.7  | 787.1  | 836.5  | 877.9  | 908.8  | 908.2  |
| 30°   | 1767.0 | 1754.0 | 1736.7 | 1558.1 | 1249.2 | 826.0  | 774.7  | 801.9  | 832.2  | 856.9  | 856.9  |
| 32.5° | 1825.7 | 1820.7 | 1802.2 | 1610.0 | 1234.4 | 814.3  | 764.2  | 767.3  | 783.4  | 803.8  | 801.9  |
| 35°   | 1907.2 | 1902.3 | 1878.8 | 1650.2 | 1170.2 | 797.6  | 747.6  | 732.1  | 734.0  | 746.9  | 751.3  |
| 37.5° | 2026.5 | 2019.0 | 1984.4 | 1697.2 | 1073.2 | 755.6  | 720.4  | 695.0  | 689.5  | 695.0  | 703.1  |
| 40°   | 2170.4 | 2159.3 | 2112.3 | 1760.8 | 961.3  | 698.8  | 677.7  | 656.7  | 647.5  | 649.3  | 658.6  |
| 42.5° | 2350.8 | 2327.3 | 2260.0 | 1828.1 | 850.7  | 648.7  | 630.2  | 617.2  | 606.7  | 605.5  | 623.4  |
| 45°   | 2643.7 | 2579.4 | 2472.5 | 1888.1 | 757.4  | 622.1  | 587.5  | 578.3  | 569.6  | 574.6  | 595.6  |
| 47.5° | 3155.2 | 3036.6 | 2828.4 | 1939.3 | 700.6  | 622.8  | 553.6  | 543.7  | 543.1  | 552.9  | 576.4  |
| 50°   | 3858.3 | 3687.2 | 3365.9 | 1973.9 | 671.0  | 630.2  | 533.2  | 517.1  | 528.9  | 538.7  | 561.0  |
| 52.5° | 4531.7 | 4270.4 | 3887.9 | 1973.3 | 658.0  | 631.4  | 538.7  | 492.4  | 528.9  | 531.3  | 552.3  |
| 55°   | 5106.9 | 4633.7 | 4028.8 | 1770.7 | 639.4  | 626.5  | 560.4  | 473.3  | 522.1  | 531.3  | 548.0  |
| 57.5° | 5564.1 | 4864.7 | 4018.3 | 1430.3 | 695.7  | 599.3  | 573.3  | 468.9  | 502.3  | 532.6  | 551.7  |
| 60°   | 5513.4 | 4759.1 | 3759.4 | 877.9  | 690.1  | 551.1  | 571.5  | 477.0  | 468.9  | 515.9  | 547.4  |
| 62.5° | 5176.7 | 4380.3 | 3314.0 | 609.2  | 648.1  | 523.3  | 541.2  | 491.2  | 438.0  | 491.8  | 526.4  |
| 65°   | 4705.3 | 3891.7 | 2761.7 | 467.1  | 536.9  | 524.5  | 489.9  | 481.3  | 410.9  | 453.5  | 490.5  |
| 67.5° | 4081.9 | 3285.6 | 2180.3 | 370.1  | 374.4  | 454.1  | 444.8  | 427.5  | 385.5  | 419.5  | 452.9  |
| 70°   | 3068.7 | 2397.8 | 1500.1 | 297.8  | 283.6  | 379.3  | 399.7  | 384.3  | 360.8  | 370.7  | 405.9  |
| 72.5° | 2162.4 | 1565.6 | 821.7  | 236.0  | 218.7  | 291.6  | 347.2  | 344.7  | 318.8  | 326.2  | 360.8  |
| 75°   | 1607.0 | 1107.8 | 513.4  | 186.6  | 177.9  | 208.8  | 291.0  | 298.4  | 276.8  | 285.4  | 312.0  |
| 77.5° | 1069.4 | 717.3  | 285.4  | 138.4  | 138.4  | 152.6  | 216.9  | 251.5  | 235.4  | 242.2  | 260.7  |
| 80°   | 590.0  | 365.1  | 142.7  | 90.8   | 93.3   | 105.0  | 158.2  | 181.0  | 181.6  | 198.3  | 203.3  |
| 82.5° | 186.6  | 116.2  | 63.6   | 53.1   | 50.0   | 59.9   | 101.9  | 129.7  | 121.1  | 154.5  | 142.1  |
| 85°   | 42.6   | 27.2   | 11.7   | 11.7   | 13.0   | 19.8   | 38.9   | 69.2   | 88.3   | 106.3  | 77.2   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.6    | 27.2   | 40.2   | 35.8   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1007.0 | 1007.0 | 1007.0 | 1007.0 | 1007.0 | 1007.0 | 1007.0 | 1007.0 | 1007.0 | 1007.0 | 1007.0 |
| 2.5°  | 944.0  | 931.7  | 928.0  | 917.5  | 916.2  | 906.3  | 902.6  | 902.6  | 907.0  | 907.0  | 911.3  |
| 5°    | 882.2  | 866.8  | 858.2  | 845.8  | 842.7  | 835.3  | 830.4  | 831.0  | 836.5  | 840.2  | 847.6  |
| 7.5°  | 827.9  | 817.4  | 811.2  | 805.6  | 804.4  | 803.2  | 797.6  | 797.0  | 798.8  | 804.4  | 810.0  |
| 10°   | 805.0  | 797.6  | 799.5  | 803.8  | 810.6  | 814.3  | 809.3  | 806.9  | 805.0  | 808.7  | 813.7  |
| 12.5° | 827.3  | 819.8  | 823.6  | 831.0  | 840.2  | 843.9  | 842.1  | 841.5  | 843.3  | 857.5  | 868.0  |
| 15°   | 876.1  | 861.9  | 856.9  | 860.0  | 867.4  | 871.1  | 869.3  | 871.7  | 883.5  | 920.6  | 947.1  |
| 17.5° | 936.6  | 902.0  | 882.2  | 876.7  | 879.8  | 882.9  | 882.9  | 889.0  | 909.4  | 963.8  | 997.2  |
| 20°   | 969.4  | 924.3  | 890.9  | 877.3  | 878.5  | 881.6  | 881.6  | 890.3  | 913.1  | 971.2  | 992.8  |
| 22.5° | 960.7  | 919.3  | 878.5  | 863.7  | 864.3  | 866.8  | 866.8  | 874.2  | 894.6  | 945.9  | 955.8  |
| 25°   | 926.7  | 890.3  | 850.1  | 837.1  | 838.4  | 842.7  | 841.5  | 845.8  | 861.2  | 903.3  | 908.8  |
| 27.5° | 886.0  | 853.8  | 814.3  | 804.4  | 810.0  | 818.6  | 811.2  | 811.8  | 826.0  | 861.2  | 861.9  |
| 30°   | 842.1  | 815.5  | 780.3  | 772.9  | 783.4  | 787.7  | 780.9  | 780.9  | 795.1  | 819.2  | 818.6  |
| 32.5° | 794.5  | 777.8  | 752.5  | 744.5  | 756.2  | 763.0  | 754.4  | 755.6  | 766.7  | 782.8  | 776.6  |
| 35°   | 750.0  | 741.4  | 729.6  | 724.1  | 731.5  | 737.7  | 732.1  | 734.6  | 745.1  | 749.4  | 740.8  |
| 37.5° | 707.4  | 706.2  | 707.4  | 707.4  | 709.3  | 711.1  | 707.4  | 713.6  | 722.8  | 717.3  | 707.4  |
| 40°   | 670.3  | 675.3  | 687.0  | 683.9  | 682.1  | 683.9  | 681.5  | 692.0  | 701.2  | 691.3  | 679.6  |
| 42.5° | 639.4  | 648.7  | 666.6  | 666.6  | 662.9  | 664.2  | 662.9  | 675.9  | 682.7  | 669.1  | 656.1  |
| 45°   | 612.9  | 626.5  | 649.3  | 652.4  | 646.2  | 646.2  | 648.7  | 664.8  | 667.2  | 648.7  | 635.1  |
| 47.5° | 594.3  | 611.0  | 637.0  | 642.5  | 633.3  | 632.6  | 639.4  | 656.7  | 656.7  | 635.1  | 619.7  |
| 50°   | 581.4  | 599.9  | 630.8  | 638.2  | 628.9  | 626.5  | 637.6  | 654.3  | 650.6  | 624.6  | 609.2  |
| 52.5° | 572.7  | 591.9  | 630.2  | 640.7  | 634.5  | 632.0  | 643.2  | 654.9  | 645.6  | 617.8  | 601.8  |
| 55°   | 567.2  | 588.2  | 632.0  | 640.7  | 633.9  | 629.6  | 640.7  | 651.2  | 646.2  | 614.1  | 598.7  |
| 57.5° | 570.2  | 591.3  | 629.6  | 633.9  | 625.9  | 618.4  | 631.4  | 646.2  | 644.4  | 615.3  | 599.9  |
| 60°   | 565.3  | 584.5  | 616.0  | 617.2  | 603.6  | 591.9  | 611.0  | 633.3  | 633.3  | 611.0  | 597.4  |
| 62.5° | 542.4  | 561.6  | 589.4  | 590.6  | 575.2  | 562.2  | 584.5  | 611.0  | 610.4  | 592.5  | 578.3  |
| 65°   | 504.8  | 522.7  | 554.2  | 557.3  | 541.8  | 528.2  | 551.1  | 575.8  | 577.7  | 561.6  | 549.2  |
| 67.5° | 463.4  | 479.4  | 502.9  | 515.3  | 502.3  | 488.1  | 509.1  | 532.6  | 531.9  | 512.8  | 499.8  |
| 70°   | 413.9  | 428.8  | 450.4  | 460.9  | 452.9  | 439.3  | 458.4  | 470.8  | 465.2  | 456.0  | 447.3  |
| 72.5° | 365.1  | 379.3  | 399.7  | 399.7  | 391.1  | 378.1  | 383.7  | 405.9  | 412.7  | 405.9  | 400.3  |
| 75°   | 313.9  | 326.2  | 340.4  | 343.5  | 324.4  | 300.9  | 326.8  | 346.0  | 354.0  | 350.9  | 344.1  |
| 77.5° | 261.3  | 270.6  | 291.6  | 286.1  | 250.2  | 237.9  | 258.9  | 287.3  | 292.8  | 291.0  | 281.7  |
| 80°   | 201.4  | 207.0  | 229.2  | 218.1  | 190.3  | 182.3  | 191.5  | 213.8  | 215.0  | 208.8  | 197.1  |
| 82.5° | 135.3  | 142.7  | 157.5  | 135.9  | 135.3  | 127.9  | 120.5  | 122.9  | 134.1  | 132.8  | 124.8  |
| 85°   | 69.2   | 72.9   | 87.1   | 81.6   | 69.8   | 60.5   | 57.5   | 61.2   | 55.0   | 50.0   | 43.2   |
| 87.5° | 29.0   | 31.5   | 43.2   | 24.1   | 7.4    | 0.0    | 0.0    | 3.7    | 5.6    | 8.0    | 8.6    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |





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**CANDELA DISTRIBUTION (continued):**

|       | 185°   | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1007.0 | 1007.0 | 1007.0 | 1007.0 | 1007.0 | 1007.0 | 1007.0 | 1007.0 | 1007.0 | 1007.0 | 1007.0 |
| 2.5°  | 921.2  | 928.0  | 944.6  | 965.7  | 986.0  | 1007.0 | 1029.9 | 1044.1 | 1061.4 | 1083.7 | 1084.3 |
| 5°    | 856.9  | 872.4  | 896.5  | 928.6  | 961.9  | 1000.3 | 1044.7 | 1081.8 | 1126.3 | 1161.5 | 1175.7 |
| 7.5°  | 817.4  | 839.6  | 869.9  | 910.7  | 954.5  | 1002.1 | 1060.2 | 1122.6 | 1195.5 | 1242.4 | 1270.2 |
| 10°   | 821.1  | 855.1  | 885.3  | 919.9  | 959.5  | 1010.8 | 1085.5 | 1168.3 | 1257.9 | 1319.7 | 1354.3 |
| 12.5° | 887.2  | 923.0  | 917.5  | 915.6  | 942.2  | 1004.6 | 1105.9 | 1214.6 | 1324.0 | 1385.8 | 1427.2 |
| 15°   | 970.6  | 984.2  | 931.7  | 892.1  | 908.2  | 982.3  | 1117.0 | 1256.0 | 1379.0 | 1454.3 | 1495.1 |
| 17.5° | 1013.2 | 986.0  | 922.4  | 863.1  | 858.8  | 948.4  | 1122.6 | 1298.0 | 1440.8 | 1516.1 | 1559.4 |
| 20°   | 993.5  | 953.9  | 900.2  | 843.9  | 813.1  | 902.0  | 1119.5 | 1331.4 | 1497.0 | 1581.0 | 1616.2 |
| 22.5° | 950.8  | 916.2  | 874.2  | 820.5  | 776.0  | 851.4  | 1111.5 | 1364.8 | 1547.0 | 1631.7 | 1662.6 |
| 25°   | 904.5  | 878.5  | 843.9  | 797.0  | 755.0  | 806.9  | 1105.9 | 1409.2 | 1604.5 | 1685.4 | 1705.2 |
| 27.5° | 858.2  | 839.0  | 810.6  | 774.1  | 750.0  | 776.0  | 1107.8 | 1467.3 | 1678.6 | 1755.2 | 1747.2 |
| 30°   | 812.4  | 795.8  | 776.0  | 759.9  | 749.4  | 768.6  | 1102.8 | 1529.1 | 1760.2 | 1831.2 | 1783.6 |
| 32.5° | 769.2  | 753.7  | 741.4  | 743.9  | 750.0  | 771.7  | 1077.5 | 1585.3 | 1834.9 | 1895.5 | 1823.2 |
| 35°   | 732.1  | 716.1  | 716.1  | 724.7  | 747.6  | 761.2  | 1012.0 | 1629.2 | 1917.7 | 1978.3 | 1879.4 |
| 37.5° | 697.5  | 683.3  | 692.6  | 706.8  | 728.4  | 732.7  | 928.0  | 1671.8 | 2038.2 | 2095.0 | 1966.5 |
| 40°   | 667.2  | 653.0  | 669.7  | 687.6  | 698.8  | 696.9  | 842.7  | 1731.1 | 2180.3 | 2239.0 | 2082.1 |
| 42.5° | 643.2  | 630.2  | 645.0  | 667.9  | 669.7  | 671.6  | 780.3  | 1788.0 | 2345.2 | 2420.0 | 2281.0 |
| 45°   | 623.4  | 614.1  | 621.5  | 644.4  | 644.4  | 672.8  | 741.4  | 1835.5 | 2593.6 | 2725.8 | 2646.1 |
| 47.5° | 607.9  | 602.4  | 606.1  | 613.5  | 625.9  | 695.0  | 716.7  | 1872.0 | 3045.9 | 3305.3 | 3225.0 |
| 50°   | 599.3  | 593.7  | 598.7  | 583.2  | 620.3  | 706.2  | 708.6  | 1899.8 | 3642.1 | 4048.6 | 3949.1 |
| 52.5° | 591.9  | 590.0  | 593.1  | 557.3  | 632.6  | 698.8  | 702.5  | 1862.7 | 4041.8 | 4780.1 | 4878.3 |
| 55°   | 589.4  | 590.6  | 575.8  | 538.1  | 647.5  | 674.0  | 683.9  | 1597.7 | 4150.5 | 5410.9 | 6020.7 |
| 57.5° | 590.6  | 586.9  | 549.2  | 540.0  | 648.1  | 624.6  | 710.5  | 1139.9 | 3992.4 | 5685.2 | 7138.3 |
| 60°   | 586.3  | 567.8  | 517.1  | 556.7  | 619.7  | 566.5  | 691.3  | 743.2  | 3575.3 | 5474.5 | 7203.2 |
| 62.5° | 567.2  | 540.0  | 489.3  | 565.9  | 569.0  | 531.9  | 627.7  | 572.7  | 3019.3 | 5023.5 | 6577.9 |
| 65°   | 539.4  | 502.9  | 465.8  | 546.8  | 517.7  | 515.9  | 472.0  | 459.0  | 2428.0 | 4486.6 | 5984.8 |
| 67.5° | 493.6  | 457.2  | 448.5  | 502.9  | 465.8  | 457.2  | 379.3  | 380.6  | 1937.5 | 3914.5 | 5388.6 |
| 70°   | 441.7  | 405.3  | 412.1  | 454.7  | 414.6  | 380.0  | 307.1  | 316.9  | 1469.8 | 3261.5 | 4584.8 |
| 72.5° | 407.8  | 359.0  | 359.6  | 400.3  | 364.5  | 307.7  | 252.7  | 261.3  | 932.9  | 2458.3 | 3645.1 |
| 75°   | 344.1  | 316.3  | 302.7  | 324.4  | 309.5  | 239.7  | 212.5  | 210.7  | 552.9  | 1762.0 | 2729.5 |
| 77.5° | 287.3  | 265.7  | 258.9  | 267.5  | 231.1  | 177.3  | 171.1  | 168.0  | 313.2  | 1128.8 | 1788.6 |
| 80°   | 208.2  | 202.6  | 202.0  | 206.4  | 177.9  | 130.4  | 130.4  | 131.0  | 168.7  | 612.9  | 1008.3 |
| 82.5° | 132.2  | 144.6  | 127.9  | 142.1  | 121.1  | 92.7   | 86.5   | 98.2   | 97.0   | 261.3  | 425.1  |
| 85°   | 55.0   | 75.4   | 70.4   | 74.8   | 57.5   | 50.7   | 54.4   | 58.7   | 56.2   | 100.7  | 165.6  |
| 87.5° | 10.5   | 12.4   | 13.6   | 13.0   | 13.0   | 16.1   | 17.9   | 21.6   | 21.6   | 29.0   | 50.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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| 0°    | 1007.0 | 1007.0 | 1007.0 | 1007.0 | 1007.0 | 1007.0 | 1007.0 | 1007.0 | 1007.0 | 1007.0 |
| 2.5°  | 1107.8 | 1125.7 | 1122.0 | 1130.0 | 1119.5 | 1123.2 | 1102.2 | 1096.6 | 1092.9 | 1094.2 |
| 5°    | 1221.4 | 1257.9 | 1264.7 | 1278.3 | 1269.0 | 1269.0 | 1231.9 | 1204.1 | 1194.2 | 1186.8 |
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| 20°   | 1613.1 | 1518.6 | 1455.0 | 1417.3 | 1438.9 | 1514.9 | 1609.4 | 1619.9 | 1599.5 | 1582.2 |
| 22.5° | 1599.5 | 1450.0 | 1363.5 | 1319.0 | 1340.1 | 1430.9 | 1578.5 | 1646.5 | 1632.9 | 1616.2 |
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| 27.5° | 1524.8 | 1312.3 | 1212.2 | 1174.5 | 1196.7 | 1283.2 | 1469.8 | 1692.8 | 1714.5 | 1709.5 |
| 30°   | 1482.8 | 1272.7 | 1182.5 | 1155.9 | 1172.6 | 1249.2 | 1414.8 | 1715.1 | 1758.3 | 1767.0 |
| 32.5° | 1463.6 | 1291.9 | 1252.3 | 1264.1 | 1242.4 | 1269.0 | 1395.0 | 1746.6 | 1811.4 | 1825.7 |
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| 37.5° | 1611.9 | 1825.7 | 1975.2 | 2138.3 | 2005.4 | 1783.6 | 1545.8 | 1875.1 | 1993.1 | 2026.5 |
| 40°   | 1879.4 | 2143.2 | 2413.2 | 2623.9 | 2423.1 | 2124.7 | 1784.3 | 1995.6 | 2140.1 | 2170.4 |
| 42.5° | 2131.5 | 2441.0 | 2812.9 | 3085.4 | 2824.7 | 2403.3 | 2041.3 | 2198.2 | 2334.1 | 2350.8 |
| 45°   | 2378.6 | 2733.2 | 3296.7 | 3675.4 | 3321.4 | 2668.4 | 2303.9 | 2540.5 | 2643.0 | 2643.7 |
| 47.5° | 2668.4 | 3062.5 | 3903.4 | 4442.7 | 3980.6 | 2961.8 | 2550.4 | 3082.3 | 3225.0 | 3155.2 |
| 50°   | 3015.0 | 3390.0 | 4528.0 | 5335.5 | 4784.4 | 3322.6 | 2863.6 | 3742.8 | 3937.4 | 3858.3 |
| 52.5° | 3478.9 | 3750.8 | 5216.3 | 6206.0 | 5660.5 | 3733.5 | 3317.7 | 4615.1 | 4679.4 | 4531.7 |
| 55°   | 4132.0 | 4271.6 | 6099.7 | 7281.0 | 6638.5 | 4239.5 | 3981.9 | 5709.9 | 5530.1 | 5106.9 |
| 57.5° | 5619.1 | 5095.8 | 7234.1 | 8507.4 | 7745.0 | 5158.8 | 5437.4 | 6917.1 | 6277.7 | 5564.1 |
| 60°   | 6863.4 | 6096.7 | 8283.7 | 9724.5 | 8693.3 | 6172.0 | 6804.1 | 7127.2 | 6249.9 | 5513.4 |
| 62.5° | 6443.9 | 6351.8 | 8662.5 | 9858.6 | 9017.1 | 6670.6 | 6550.1 | 6597.7 | 5842.1 | 5176.7 |
| 65°   | 5653.7 | 5859.4 | 8324.5 | 9222.8 | 8658.1 | 6223.9 | 5924.9 | 6108.4 | 5375.7 | 4705.3 |
| 67.5° | 5187.2 | 5338.6 | 7723.4 | 8205.3 | 8005.7 | 5740.8 | 5438.7 | 5305.8 | 4651.6 | 4081.9 |
| 70°   | 4710.3 | 4835.7 | 6879.4 | 6928.2 | 6988.2 | 4937.6 | 4447.1 | 4051.7 | 3467.2 | 3068.7 |
| 72.5° | 4070.2 | 4077.0 | 5812.5 | 5529.5 | 5643.2 | 3863.8 | 3579.7 | 3029.2 | 2523.8 | 2162.4 |
| 75°   | 3414.7 | 3228.1 | 4600.9 | 3865.1 | 4093.1 | 3005.7 | 2972.3 | 2282.8 | 1903.5 | 1607.0 |
| 77.5° | 2603.5 | 2385.4 | 3360.9 | 2541.7 | 2874.7 | 2001.7 | 2234.7 | 1548.3 | 1339.4 | 1069.4 |
| 80°   | 1747.8 | 1611.9 | 1857.2 | 1434.6 | 1880.6 | 1379.6 | 1457.4 | 877.3  | 760.5  | 590.0  |
| 82.5° | 921.8  | 787.1  | 1147.9 | 850.7  | 1134.3 | 758.1  | 546.8  | 271.2  | 231.1  | 186.6  |
| 85°   | 357.1  | 413.3  | 562.8  | 302.7  | 439.9  | 270.6  | 158.2  | 67.3   | 56.2   | 42.6   |
| 87.5° | 69.2   | 106.9  | 58.7   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)